

APPENDIX C

City Locations File

C.1 Creating a Text Overlay File

City names, radar locations, SAO stations as well as county names can be displayed using the city overlay function. However, a text file will need to be created before the city overlay will be operational. Before entering RADS, the file should be created using the editor of your choice. The name of the file must be 'cityLocations.radar' where *radar* is the four letter identifier for the radar name (e.g. KOUN). The letters must be in the correct case. 'cityLocations' must be in all lower case except the "L". The radar name must be in all upper case. The file must be in the same directory as the RADS programs.

When creating the text file, the following will be input...

- * RANK
- * TYPE
- * STRING
- * LATITUDE
- * LONGITUDE

The RANK corresponds to the magnification of images, displays certain cities at each magnification...The lower numbers are plotted at bare [default] magnification. The higher numbered cities are plotted as the image is zoomed in. For example, a rank of 1 will display a city name at a magnification of 1 and at every magnification thereafter as the image is zoomed in. On the other hand, a rank of 8 will display the town name at a magnification of 8 and at every magnification thereafter as the image is zoomed in. The location in the last example will not be displayed at magnifications lower than 8. (Magnification is done at powers of 2 starting with 1. The image is initially displayed at a magnification of 1 and zoomed in to a magnification of 2, 4, 8, 16, etc.)

The TYPE of marker that will be used to denote a particular string on the display is designated as follows...

- | | |
|----------------|---|
| 10 = DIAMOND | [always plotted] |
| 11 = TRIANGLE | [always plotted] |
| 15 = DOT | [plotted if rank is lower than zoom] |
| 16 = NO MARKER | [text is still plotted (e.g. county names)] |
| 02 = SQUARE | [always plotted] |

It is important to note that the type number will give precedence over rank. That is, 10, 11, 16, and 02 are ALWAYS plotted at each magnification regardless of rank specification. Marker number 15 is the only one that allows the rank number to dictate when that string is plotted. See example in [Figure C.1](#).




Figure C.1 An example of a City Locations file.

```
1 15 KAMA 35.233 -101.709
8 15 MedicineMound 34.000 -100.000
16 15 Benonine 35.250 -100.000
16 15 Lazare 34.317 -100.000
16 15 Radium 32.833 -100.000
2 15 JONES 32.783 -100.011
4 15 Dodson 34.767 -100.017
4 15 Higgins 36.117 -100.017
8 15 DodgeCity 37.750 -100.017
8 15 Merkel 32.467 -100.017
16 15 Magoun 36.367 -100.017
16 15 GardenVly 34.533 -100.033
16 15 Sinclair 32.717 -100.033
2 15 TAYLOR 32.300 -100.044
4 15 Gate 36.850 -100.050
8 15 Noodle 32.600 -100.050
8 15 OldGlory 33.133 -100.050
2 15 Kirkland 34.383 -100.067
16 15 Blair 32.417 -100.067
16 15 Arlie 34.717 -100.083
16 15 BoydsChapel 32.750 -100.083
16 15 Fuller 35.250 -100.083
4 15 Allison 35.600 -100.100
8 15 Neinda 32.800 -100.100
16 15 MulberryCanyon 32.350 -100.100
2 15 Slapout 36.617 -100.117
4 15 Kelton 35.400 -100.117
16 15 Baker 34.200 -100.117
2 15 FORD 37.670 -100.133
2 15 Hamlin 32.883 -100.133
```